

74. (Withdrawn) A method of performing a bioassay comprising the steps of: (a) supporting a cell line on a substrate, and (b) exposing the cell line to a pharmaceutical product, wherein the substrate comprises one or more of resorbable silicon, bioactive silicon, and biocompatible silicon.

75. (Withdrawn) A method of performing a bioassay according to claim 74 wherein the substrate further comprises apatite.

76. (Withdrawn) A method of performing a bioassay according to claim 74 or 75 wherein the method is performed *in vitro*.

77. (Withdrawn) A method of forming a bond between living tissue and a material, comprising the steps of (a) forming the material at least partly from bioactive silicon, and (b) bringing the bioactive silicon into contact with the living tissue.

78. (Withdrawn) A method of degrading a material and replacing it with living tissue, comprising the steps of (a) forming the material at least partly from resorbable silicon, and (b) bringing the resorbable silicon into contact with living tissue.

79. (Withdrawn) A method of enhancing mineral deposition on an implantable bioassay device having an integrated circuit comprising, prior to implantation, forming a layer of bioactive silicon on at least a portion of the bioassay device.

80. (Withdrawn) A method of improving adhesion of bone to a surgical implant comprising, prior to implantation, forming a layer of bioactive silicon on at least a portion of the surgical implant.

81. (Withdrawn) A method according to one of claims 49 or 59 wherein the bioactive silicon comprises one or more of: bulk crystalline silicon, amorphous silicon, and polycrystalline silicon.

82. (Withdrawn) A bioactive silicon structure comprising resorbable silicon material.
83. (Withdrawn) A bioactive silicon structure according to claim 82 wherein the resorbable silicon material comprises mesoporous silicon, and is arranged such that, when the structure is immersed in a human or animal body, it acts as a source of soluble silicon
84. (Withdrawn) An electronic device for drug delivery comprising bioactive silicon and a drug.
85. (Withdrawn) An electronic device according to claim 84 for drug delivery characterized in that the device further comprises resorbable silicon.
86. (Canceled).